

# INTERNATIONAL SEARCH REPORT

PCT/GB2004/000395

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N33/68 A61K45/00 A61K38/08 A61K38/10 A61K38/17  
A61P17/02 A61P35/00 A61P27/12

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, Sequence Search, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ZHANG Y ET AL: "RECEPTOR-ASSOCIATED MAD HOMOLOGUES SYNERGIZE AS EFFECTORS OF THE TGF-BETA RESPONSE" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 383, 12 September 1996 (1996-09-12), pages 168-172, XP002054482 ISSN: 0028-0836 abstract figure 3	1-4, 6-9, 13-18
X	WO 01/89556 A (ASHCROFT GILLIAN S ; DENG CHUXIA (US); US HEALTH (US); ROBERTS ANITA B) 29 November 2001 (2001-11-29) claims page 22, line 22 - page 28, line 32 ----- -/-	1-3

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*G\* document member of the same patent family

Date of the actual completion of the international search

1 July 2004

Date of mailing of the international search report

09/07/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/16604 A (HOEKSTRA MERL F ; MURRAY BRION W (US); XIE WEILIN (US); MERCURIO FRANK) 8 March 2001 (2001-03-08) . SEQ ID NO: 24 page 14, paragraph 2 - page 15, paragraph 1	1-20
A	MIYAZONO K: "SIGNAL TRANSDUCTION BY BONE MORPHOGENETIC PROTEIN RECEPTORS: FUNCTIONAL ROLES OF SMAD PROTEINS" BONE, PERGAMON PRESS., OXFORD, GB, vol. 25, no. 1, July 1999 (1999-07), pages 91-93, XP000964877 ISSN: 8756-3282 the whole document	1-20

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## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
  - a. type of material
    - ☐ a sequence listing
    - ☐ table(s) related to the sequence listing
  - b. format of material
    - ☒ in written format
    - ☒ in computer readable form
  - c. time of filing/furnishing
    - ☐ contained in the international application as filed
    - ☐ filed together with the international application in computer readable form
    - ☐ furnished subsequently to this Authority for the purpose of search
2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

# INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/000395

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0189556	A	29-11-2001	WO 0189556 A1	29-11-2001
			AU 5028500 A	03-12-2001
			CA 2410987 A1	29-11-2001
			EP 1292323 A1	19-03-2003
			JP 2004510696 T	08-04-2004
			US 2003139366 A1	24-07-2003
WO 0116604	A	08-03-2001	AU 7086600 A	26-03-2001
			CA 2383514 A1	08-03-2001
			EP 1212621 A1	12-06-2002
			JP 2003508755 T	04-03-2003
			WO 0116604 A1	08-03-2001
			US 2003119072 A1	26-06-2003